



**SECOR
INTERNATIONAL
INCORPORATED**

www.secotor.com
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
805-230-1266 TEL
805-230-1277 FAX

May 23, 2006

Mr. Nhan Bao
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Subject: Well Sampling Reduction Notification
 Former ARCO Facility No. 1289
 4861 East Firestone Boulevard
 South Gate, California 90280

Dear Mr. Bao:

On behalf of Atlantic Richfield Company, SECOR International, Inc. has prepared this notification concerning the reduction of groundwater monitoring activities at Former ARCO Facility No. 1289, located at 4861 East Firestone Boulevard in South Gate, California. Groundwater activities were initiated at the Site in May, 1992, and have continued on a quarterly basis to date. Historical groundwater elevation and analytical data is summarized in Table 7. SECOR believes that a reduction in the number of wells sampled per quarter is warranted at this time.

SITE DESCRIPTION

The Site, an approximate 17,500 square-foot parcel of land, is located on the northwest corner of the intersection of Atlantic Avenue and Firestone Boulevard in the City of South Gate, Los Angeles County, California (Figures 1 and 2). Former station operations consisted of gasoline dispensing and retail sales. Currently, the Site is operating as a used car sales lot. Two double-walled fiberglass underground storage tanks (USTs) were installed in the eastern portion of the Site in August 1998. One of the USTs had a 20,000-gallon capacity and the other had a 22,000-gallon capacity, which was partitioned (one 10,000-gallon subtank and one 12,000-gallon subtank) to accommodate two different grades of unleaded gasoline. These USTs, dispensers, and associated piping were removed from the Site on November 19, 2001.

Commercial and Industrial buildings are located to the north, west, and east (across Mason Street) of the Site. An open LUFT case, a Shell Service Station (LARWQCB File #I-26326), is located due south of the Site across Firestone Boulevard. The City of South Gate utilizes a former public supply well (State Well No. 02S/12W-31M02S, identified in the March 14, 2001

LARWQCB letter) as a groundwater observation well approximately 499 feet east of the Site. A detailed Site vicinity map is included as Figure 3.

BACKGROUND

Numerous soil and groundwater characterization activities have been conducted at the Site since petroleum hydrocarbon constituents first were identified in May 1992. Short summaries of the previous assessment activities are presented in chronological order:

On **May 28 and 29, and June 18, 1992**, a leak detection investigation was conducted, which included the installation of one groundwater monitoring well (MW-1), six vapor monitoring wells (MW-2 through MW-6 and MW-7A), and eight hand-auger borings (HA-1, HA-3, HA-4, HA-5, HA-6, HA-8, HA-9, and HA-12). Maximum total petroleum hydrocarbons as gasoline (TPHg) and benzene concentrations were reported at 9,700 mg/kg and 110 mg/kg, respectively, in soil from MW-4 at the 20-foot interval (Alton Geoscience, 1992a).

On **August 25 and 26, 1992**, Alton Geoscience conducted an initial site assessment, which included the installation of two groundwater monitoring wells (MW-7 and MW-8) and two soil vapor extraction (SVE) wells (VW-9 and VW-10). Maximum TPHg and benzene concentrations in soil were reported from VW-9 at 19-feet at 350 mg/kg and 28 mg/kg, respectively. Groundwater samples were collected from wells MW-7 and MW-8 on August 28, 1992. Maximum TPHg and benzene concentrations in groundwater were reported at 290 µg/l and 5 µg/l, respectively, from well MW-7 (Alton Geoscience, 1992b).

On **January 20, 1993**, additional well installation activities were conducted, which included the installation of one SVE well (MW-10). Maximum TPHg and benzene concentrations in soil were reported at 20 feet at 3.0 mg/kg and 0.92 mg/kg, respectively (Alton Geoscience, 1993c).

On **August 13 and 20, 1998**, Delta provided oversight for UST removal activities, which included the removal of three 10,000-gallon USTs and one 6,000-gallon UST, located at the western end of the Site, along with the associated dispensers and piping. One 22,000-gallon UST and one 20,000-gallon UST were installed at the eastern end of the Site. Maximum TPHg, benzene, and MTBE concentrations in soil samples collected beneath the former dispensers, product lines, and USTs were 25,000 mg/kg, 590 mg/kg, and 360 mg/kg, respectively (Delta, 1998a).

On **September 13 and 14, 1999**, Delta installed three groundwater monitoring wells (MW-11, MW-12, and MW-13) at the Site. Groundwater samples were collected from these wells on November 22, 1999. Maximum TPHg, benzene, and MTBE concentrations in

groundwater were 12,000 µg/l, 2,300 µg/l, and 290 µg/l, respectively (Delta, 2000a).

On September 5 and 6, 2000, Delta installed three groundwater monitoring wells (MW-14, MW-15, and MW-16) at the Site. Groundwater samples were collected from these wells on November 1, 2000. Maximum TPHg, benzene, and MTBE concentrations in groundwater were reported at 2,500 µg/l, 230 µg/l, and 140 µg/l, respectively (Delta, 2000b).

From November 12 through 19, 2001, all USTs, dispensers, and associated piping were removed from the Site and were not replaced. Maximum TPHg, benzene, and MTBE concentrations in groundwater were reported at 3,600 mg/kg, 18 mg/kg, and 3.2 mg/kg, respectively (Delta, 2001).

Between January 16 and 18, 2002, Delta installed three off-site groundwater monitoring wells (MW-24, MW-25, and MW-26). TPHg was not detected above the laboratory detection limits in any of the soil samples collected. The maximum benzene concentration in soil was reported at 0.039 mg/kg from MW-24 at 40 feet. Groundwater samples were collected from these wells on March 25, 2002. Maximum TPHg and benzene concentrations in groundwater were reported from well MW-26 of 170 µg/l and 13 µg/l, respectively. No MTBE was detected in either soil or groundwater (Delta, 2002).

On April 8 and 9, 2002, Delta advanced two borings to a total depth of 50 and 52.5 feet bgs, respectively. The borings were converted to triple completion two-inch diameter air sparge (AS)/SVE wells (AS-1 and AS-2). Each well consisted of one AS well, and two SVE wells (a deep and shallow screened SVE well). The AS screened intervals were set to extend from 45 to 47 feet bgs in AS-1 and from 49 to 51 feet bgs in AS-2. The deep SVE screened intervals were set to extend from 29 to 39 feet bgs in both AS-1 and AS-2. The shallow SVE screened intervals were set to extend from 20 to 25 feet bgs in AS-1 and from 17 to 25 feet bgs in AS-2. Maximum TPHg, benzene, and MTBE concentrations in soil were reported at 7,500 mg/kg (AS-2, 35-foot interval), 83 mg/kg (AS-2, 15-foot interval), and 0.72 mg/kg (AS-2, 10-foot interval) respectively (Delta, 2002).

On July 11 and 12, 2002, SECOR conducted an AS/SVE pilot test at the Site. The AS test was conducted using an air compressor and existing AS/SVE wells AS-1 and AS-2. Wells MW-7, MW-10, MW-13, MW-15, MW-16 and VW-10 were used to monitor the effective radius of influence (ROI). The estimated AS ROI measured at well AS-1 was greater than 13 feet but less than 32 feet. No conclusive results were made from the test at AS-2 due to its short duration. The SVE test consisted of a step test on wells AS-1S, AS-1D, AS-2S, and AS-2D, followed by a six-hour test on well AS-1D. Select Site wells were monitored for vacuum influence during each testing period. The SVE test indicated an estimated ROI of at least 70 feet. SECOR concluded that AS/SVE was feasible for remediation of petroleum hydrocarbons in soil and groundwater beneath the Site (SECOR, 2002).

From April 7 through 14, 2003, SECOR installed 13 on-Site AS and AS/SVE wells. Two single AS wells (AS-3 and AS-4) were installed north of the former dispenser islands near the northern boundary of the property. Three single AS wells (AS-5, AS-6, and AS-7) and two triple-nested wells (AS-12/SVE-S-12/SVE-D-12 and AS-13/SVE-S-13/SVE-D-13) were installed east of the former dispenser islands. Two dual-nested wells (AS-14/SVE-S-14 and AS-15/SVE-S-15) were installed between the former dispenser islands underneath the canopy. Two single AS wells (AS-8 and AS-9) and two dual-nested wells (AS-10/SVE-D-10 and AS-11/SVE-D-11) were installed west of the former dispenser islands. Soil analytical results identified a maximum concentration of Gasoline Range Organics (GRO C4-C12) of 3,700 mg/kg (AS-14/SVE-S-14-40), a maximum concentration of benzene of 20 mg/kg (AS-14/SVE-S-14-40), a maximum concentration of MTBE of 0.27 mg/kg (AS-10/SVE-D-10-40), and a maximum concentration of *tertiary*-butanol (TBA) of 0.053 mg/kg (AS-9 at 40). *Tertiary*-amyl-methyl ether (TAME), ethyl-*tertiary*-butyl ether (ETBE), di-isopropyl ether (DIPE), and ethanol were not reported at or above the laboratory method detection limits (LMDLs) in the soil samples analyzed (SECOR, 2003).

Between November 2003 and March 2004, SECOR constructed the remedial compound and procured and installed the necessary equipment. Pipe and manifold installation of the AS/SVE wells was completed by early April 2004. Electrical hook-up was completed in early April 2004, at which time the SVE system was initially started. The system ran intermittently from April 2004 through November 2005.

SECOR continues to conduct quarterly groundwater monitoring and sampling and SVE system operation and maintenance at the Site. The SVE system was restarted January 11, 2006.

GEOLOGY AND HYDROLOGY

The Site is located in the central portion of the Downey Plain, which extends from the Ballona Gap in the west across the Coastal Plain of Los Angeles County into the Coastal plain of Orange County to Santa Ana. Alluvial fans formed by the Los Angeles and Rio Hondo-San Gabriel River systems, the major drainage system of the Coastal Plain of Los Angeles County, have coalesced to form the Downey Plain. The uppermost sediments in the Site vicinity are Quaternary in age and generally consist of interbedded sand, silt, and clay (California Department of Water Resources, 1961).

The Site is located within the Central Basin Pressure Area, which is overlain by the Downey Plain. Water-bearing sediments in the Pressure Area range in age from Recent to Pliocene. The Pressure Area is bounded on the southwest by the Newport-Inglewood Uplift and on the north by the South Gate-Santa Ana Depression. The Bellflower Aquiclude with sediments of lesser permeability (which restricts vertical movement of groundwater) is present beneath the Site. The thickness of the Bellflower Aquiclude in the Site vicinity is approximately 60 feet (from ground surface to approximately 60 feet bgs). The Bellflower Aquiclude is composed mainly of silt and clay; however, there are numerous areas where it

consists of clayey sand and gravel where its effectiveness as an aquiclude is limited (CDWR, 1961).

The shallowest producing aquifer beneath the Site is the Gaspur Aquifer, which occurs between approximately 50 and 90 feet bgs in the Site vicinity. Regionally, the overlying Bellflower Aquiclude restricts vertical percolation into the Gaspur Aquifer. The Lakewood Formation contains the Exposition and Gage Aquifers. The base of the Lakewood Formation is approximately 275 feet below the Site vicinity. The San Pedro Formation lies beneath the Lakewood Formation and contains the Hollydale, Jefferson, Lynwood, Silverado, and Sunnyside Aquifers. The San Pedro Formation extends to approximately 1,300 feet bgs in the vicinity of the Site (CDWR, 1961).

SITE SPECIFIC GEOLOGY AND HYDROGEOLOGY

Soil types encountered beneath the Site during drilling activities primarily consist of interbedded sand, silty sand, and silt to 75 feet bgs (maximum depth explored). During the First Quarter 2006 groundwater monitoring and sampling activities were conducted at the Site on January 30, 2006 by SECOR. Groundwater was encountered at depths ranging from 42.99 to 45.07 feet below the top of well casings. Based on the First Quarter 2006 groundwater monitoring and sampling event, the current groundwater flow direction is to the northeast at an average gradient of 0.017 ft/ft.

SUMMARY OF GROUNDWATER MONITORING ACTIVITES

Dissolved-phase hydrocarbons were first detected at the Site on August 28, 1992, following the installation of groundwater monitoring wells MW-1, MW-7, and MW-8. Maximum concentrations observed at this time were in well MW-7 with 290 µg/L for GRO and 5 µg/L for benzene. A maximum GRO concentration of 14,000 µg/L was detected in groundwater monitoring well MW-13 during the Fourth Quarter 2002. Maximum benzene and MTBE concentrations of 3,200 and 980 µg/L, respectively, were detected in groundwater monitoring well MW-15 during the Fourth Quarter 2002. Historical groundwater analytical results are located in Table 7.

On January 30, 2006 SECOR conducted the First Quarter 2006 Groundwater Monitoring and Sampling event at the Site. A total of ten groundwater monitoring wells (MW-7, MW-11 through MW-16 and MW-24 through MW-26) were gauged and sampled. Depth to groundwater in the on- and off-Site groundwater monitoring wells ranged from 42.99 to 45.07 feet bgs. The groundwater flow direction was to the northeast at a gradient of approximately 0.017 feet per foot.

All groundwater samples were relinquished to Del Mar Analytical of Irvine, California (Del Mar) for potential chemical analysis. SECOR and Del Mar adhered to strict chain-of-custody procedures from sample collection to sample analysis. All groundwater samples were analyzed for the following analytes and in accordance with the appropriate

Environmental Protection Agency (EPA) method:

- GRO (C₄-C₁₂) by EPA method 8015B
- BTEX, DIPE, ETBE, TAME, TBA, MTBE, and ethanol by EPA Method 8260B.

Detectable concentrations of dissolved-phase hydrocarbons were identified within the laboratory reporting limit (RL) in nine of the ten groundwater samples. Concentrations qualified by a "J flag" are estimated values detected at a level below the RL and above the laboratory method detection limit (MDL). EPA-certified labs therefore advise that the user of these data should be aware that these data are of unknown quality. Maximum hydrocarbon concentrations were identified as follows: GRO – 560 µg/L (MW- 14), benzene – 300 µg/L (MW- 14), MTBE – 520 µg/L (MW-15), and TBA – 140^J µg/L (MW- 15). A copy of the First Quarter 2006 Status Report is included in Appendix B. Included in the Quarterly Status Report is a summary of historical groundwater analytical and elevation data, a groundwater gradient and hydrocarbon concentration map, isoconcentration maps for GRO, benzene, MTBE, and TBA, and hydrographs for individual wells.

WELL REDUCTION PROGRAM

The well reduction program is designed to reduce the number of wells which are used for groundwater monitoring and sampling at the Site. The wells affected by the reduction program were originally significant to the monitoring program; however, they now appear to be redundant or supply marginal information regarding the progress of current remedial activities. The well designated for reduction is shown on Figure 2, and the rationale guiding the reduction decision-making process is as follows:

- **MW-11:** This well is located onsite, approximately 40 feet from the southwest corner of the former dispenser pumps, and is located adjacent to Firestone Avenue. Well MW-11 has not exhibited detectable quantities of petroleum hydrocarbon in groundwater since April, 2003 (Table 7, Summary of Groundwater Analytical & Elevation Results). The southern boundary will be still be determined by well MW-7. Therefore, Well MW-11 is considered non-essential and redundant to the current groundwater monitoring program and definition of contaminant migration.

Groundwater well MW-11 will be sampled annually; all other wells will continue to be gauged quarterly to determine groundwater elevations and hydrocarbon concentrations (Table 1, Proposed Groundwater Sampling Schedule).

REMARKS AND SIGNATURES

SECOR plans to initiate the reduced sampling schedule during the Third Quarter of 2006 If you have any questions regarding this correspondence, please contact the undersigned at (805) 230-1266.

Sincerely,

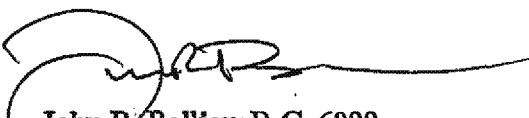
SECOR INTERNATIONAL, INC.



Stephanie Heathcote
Project Manager Asst.



Bruce Cameron, R.G. 8007
Associate Geologist
Project Manager



John R. Bollier, R.G. 6099
National Account Manager
BP/ARCO Central LA Portfolio



Attachments: References

- | | |
|----------|---|
| Figure 1 | Site Location Map |
| Figure 2 | Groundwater Contour and Hydrocarbon Concentrations Map |
| Figure 3 | Site Vicinity Map |
| Figure 4 | Dissolved GRO Isoconcentration Map |
| Figure 5 | Dissolved Benzene Isoconcentration Map |
| Figure 6 | Dissolved MTBE Isoconcentration Map |
| Figure 7 | Dissolved TBA Isoconcentration Map |
| Table 1 | Proposed Groundwater Sampling Schedule |
| Table 7 | Summary of Groundwater Analytical and Elevation Results |

Cc: Mr. Darrell Fah-Atlantic Richfield

REFERENCES

Alton Geoscience, 1992a, Leak Detection Investigation for ARCO Station 1289, dated July 13, 1992. Alton Geoscience, 1992b, Initial Site Assessment Report, dated November 4, 1992.

Alton Geoscience, 1993, Vadose Monitoring Well Installation Letter Report, dated March 9, 1993.

California Department of Water Resources (CDWR), 1961, Planned Utilization of the Ground Water Basins

of the Coastal Plain of Los Angeles County, Appendix A: Ground Water Geology, Bulletin No. 104. Delta Environmental Consultants, Inc., 1998a, Underground Storage Tank Removal Report, ARCO Facility No. 1289, dated October 27, 1998.

Delta Environmental Consultants, Inc., 1998b, Well Abandonment/Groundwater Sampling Report, ARCO Facility No. 1289, dated November 5, 1998.

Delta Environmental Consultants, Inc., 2000a, Groundwater Monitoring Well Installation Report, ARCO Facility No. 1289, dated February 10, 2000.

Delta Environmental Consultants, Inc., 2000b, Groundwater Monitoring Well Installation Report, ARCO Facility No. 1289, dated October 27, 2000.

Delta Environmental Consultants, Inc., Preliminary Site Conceptual Model, ARCO Facility No. 1289, dated May 15, 2001.

Delta Environmental Consultants, Inc., Determination of Plume Travel Time Report, ARCO Facility No. 1289, dated July 12, 2001.

Delta Environmental Consultants, Inc., 2002a, Underground Storage Tank Removal Report, ARCO Facility No. 1289, dated February 1, 2002.

Delta Environmental Consultants, Inc., 2002b, Air Sparge/Soil Vapor Extraction Well Installation Report, Former ARCO Facility No. 1289, dated May 28, 2002.

Dennis D. Rock Construction, 1992, Report of Vapor Extraction Evaluation, dated October 12, 1992.

SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated July 15, 2001

SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated October 11, 2001.

SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated January 14, 2003.

SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated April 11, 2003.

SECOR International, Inc., Air Sparge/Soil Vapor Extraction Pilot Test Report, ARCO Facility No. 1289, dated July 31, 2002.

SECOR International, Inc., Air Sparge/Soil Vapor Extraction Well Installation Report and Remedial System Installation Progress Report, ARCO Facility No. 1289, dated May 14, 2003.

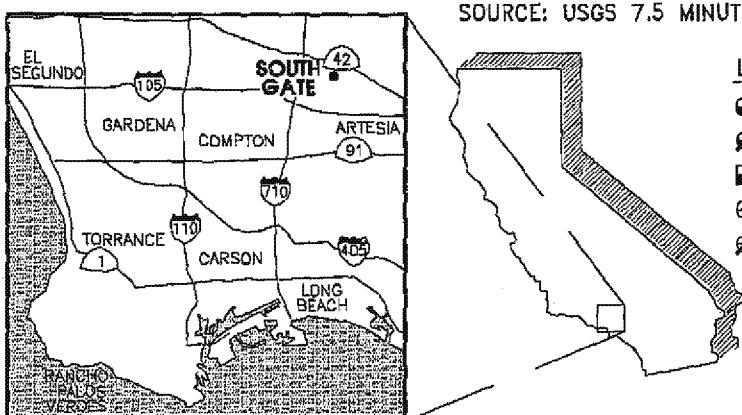
SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated April 15, 2005.

SECOR International, Inc., Site Conceptual Model Update and Quarterly Groundwater Monitoring Report, ARCO Facility No. 1289, dated July 15, 2005.

FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SOUTH GATE QUADRANGLE, 19 PHOTOREVISED 19

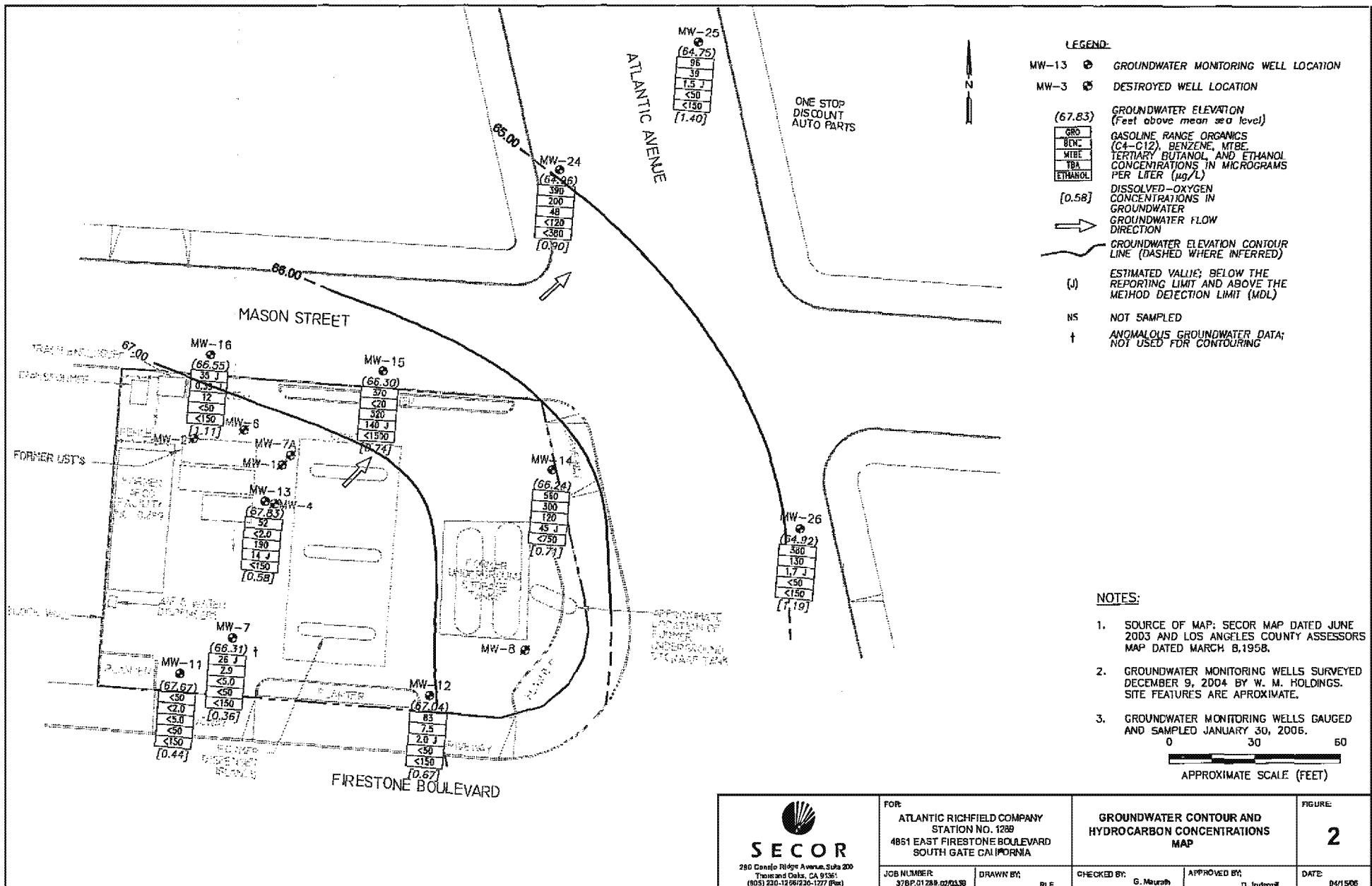


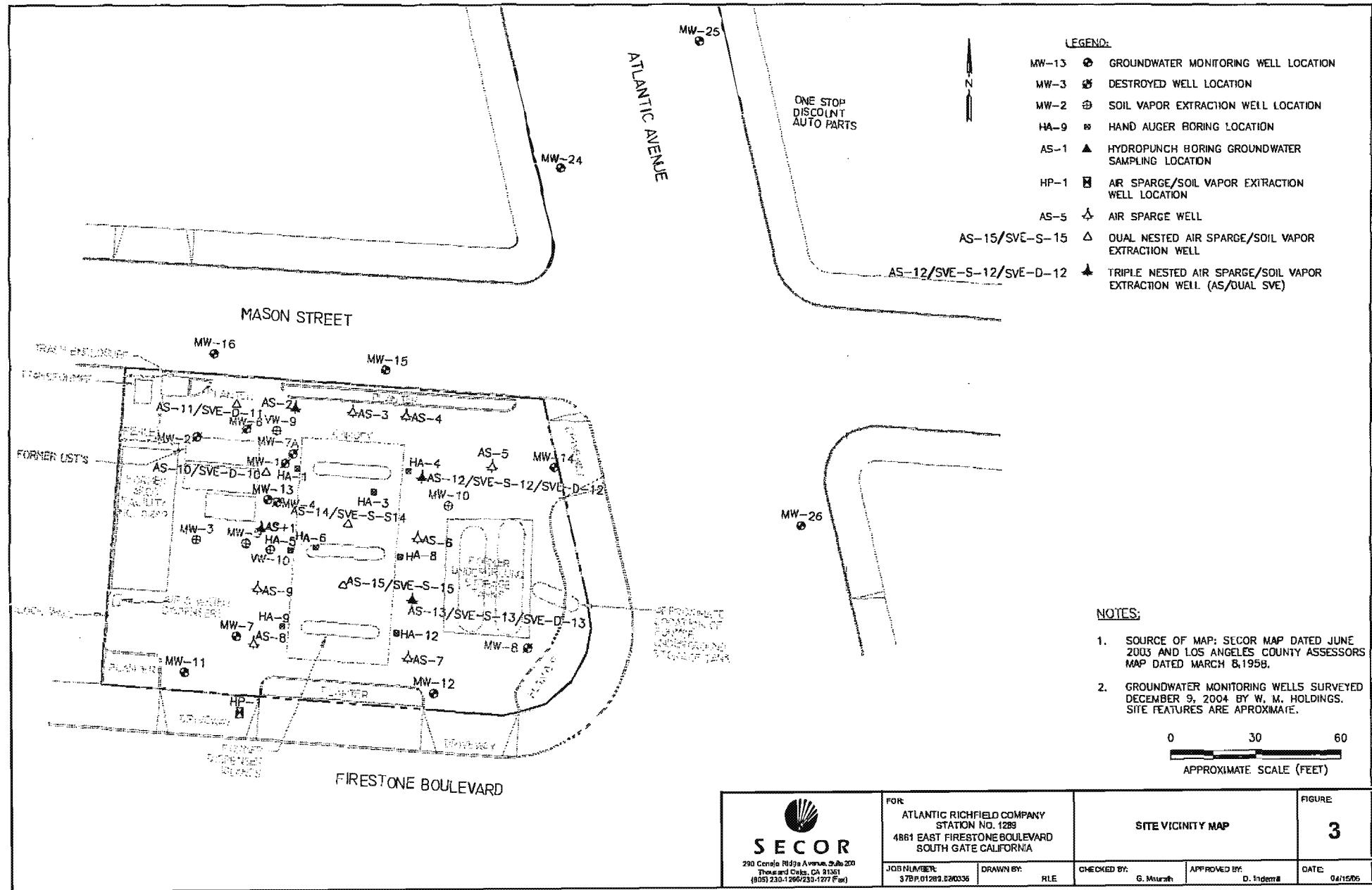
LEGEND

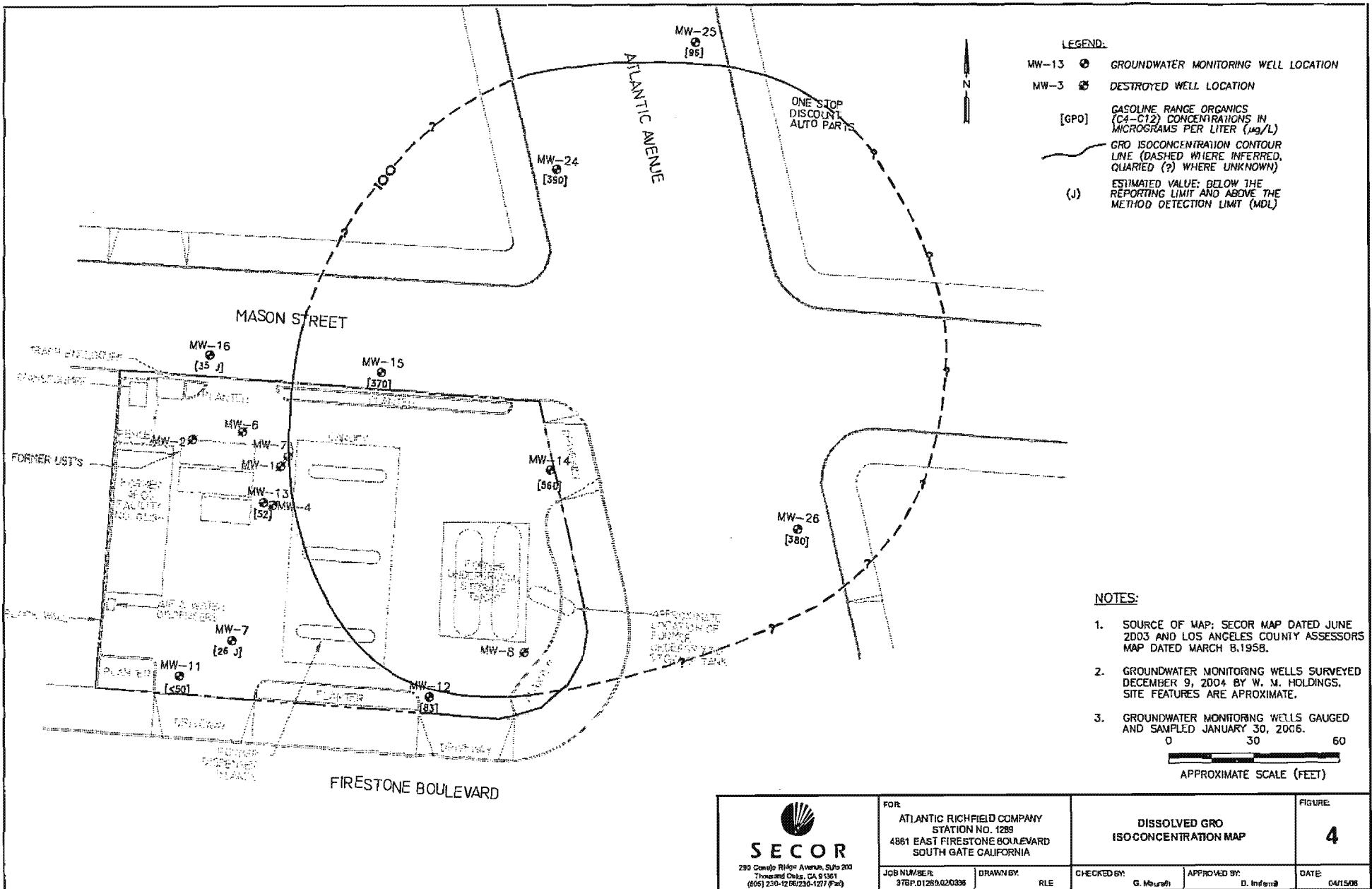
- PUBLIC SUPPLY WELL
- PUBLIC SUPPLY WELL (ABANDONED)
- OBSERVATION WELL
- ⊕ WELL
- ⊖ WELL (ABANDONED)

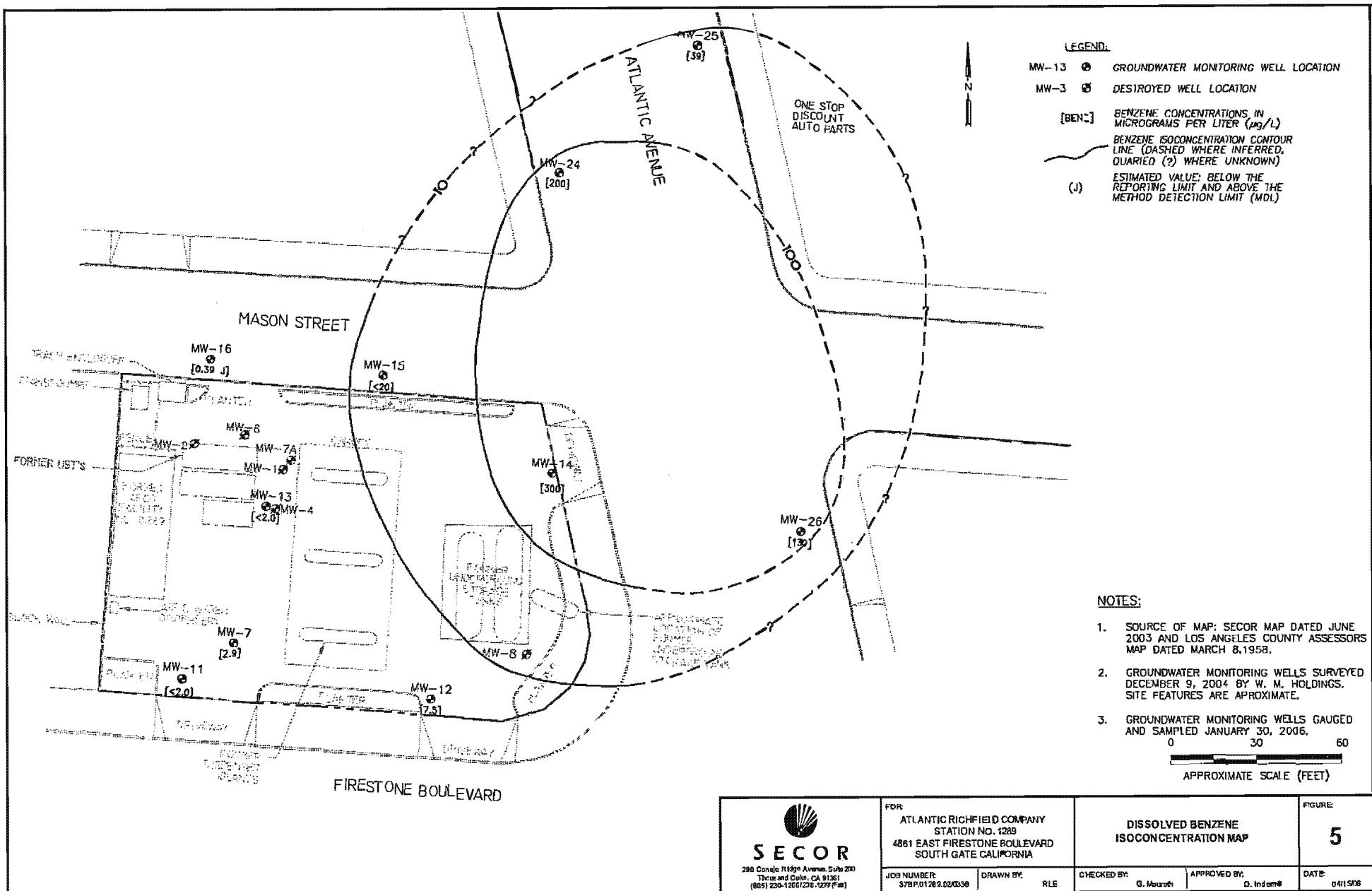
0 2000 4
APPROPRIATE SCALE (FEET)

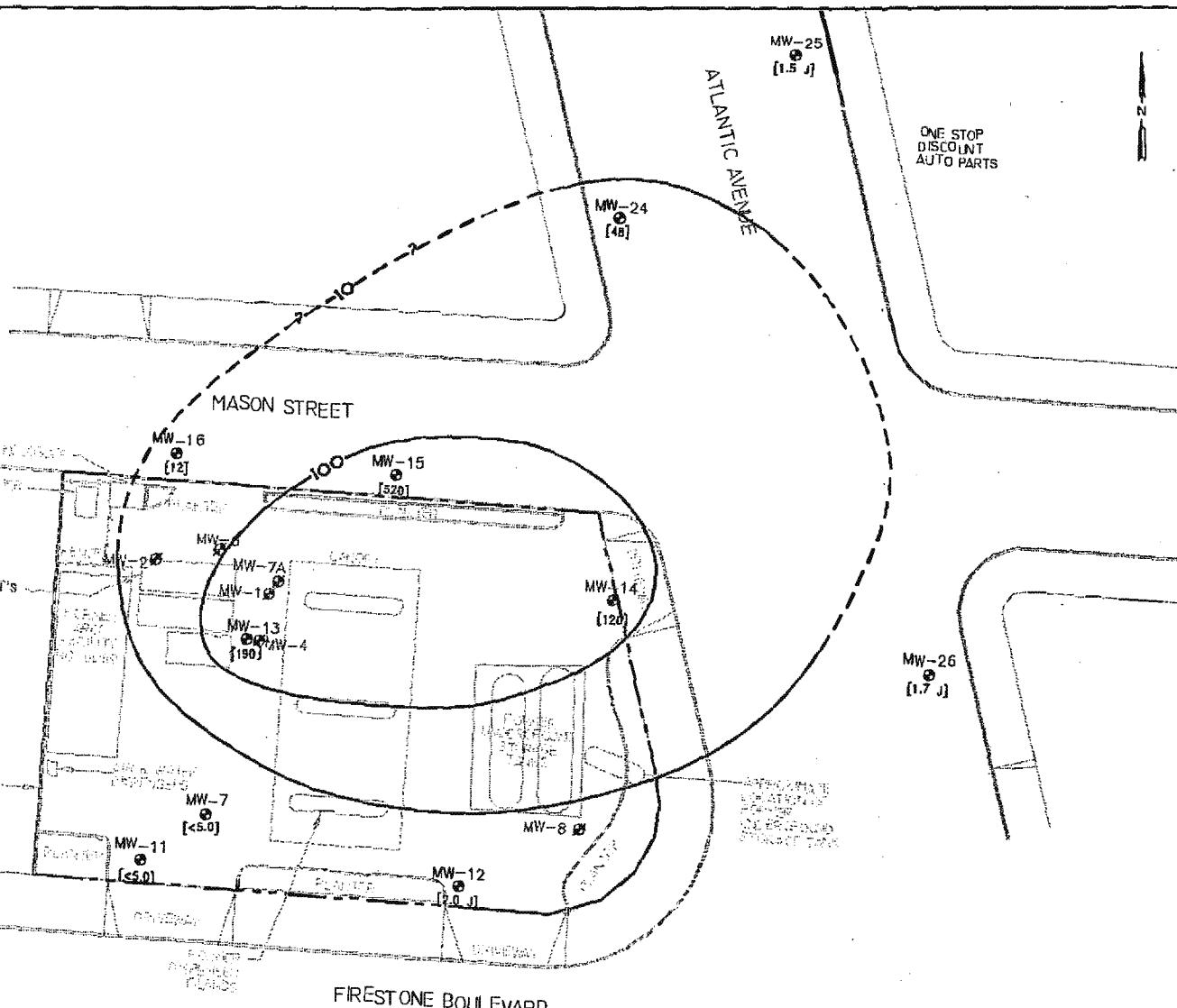
 SECOR 290 Cojedo Ridge Avenue, Suite 200 Thousand Oaks, CA 91381 (805) 230-1268/230-1277 (Fax)	FOR ATLANTIC RICHFIELD COMPANY STATION NO. 1289 4861 East Firestone Boulevard South Gate, California	SITE LOCATION MAP SHOWING MUNICIPAL WELLS WITHIN A ONE-MILE RADIUS	FIGURE 1
JOB NUMBER 37BP.01289.02/0336	DRAWN BY: RLE	CHECKED BY: G. Maurath	APPROVED BY: B. Cameron



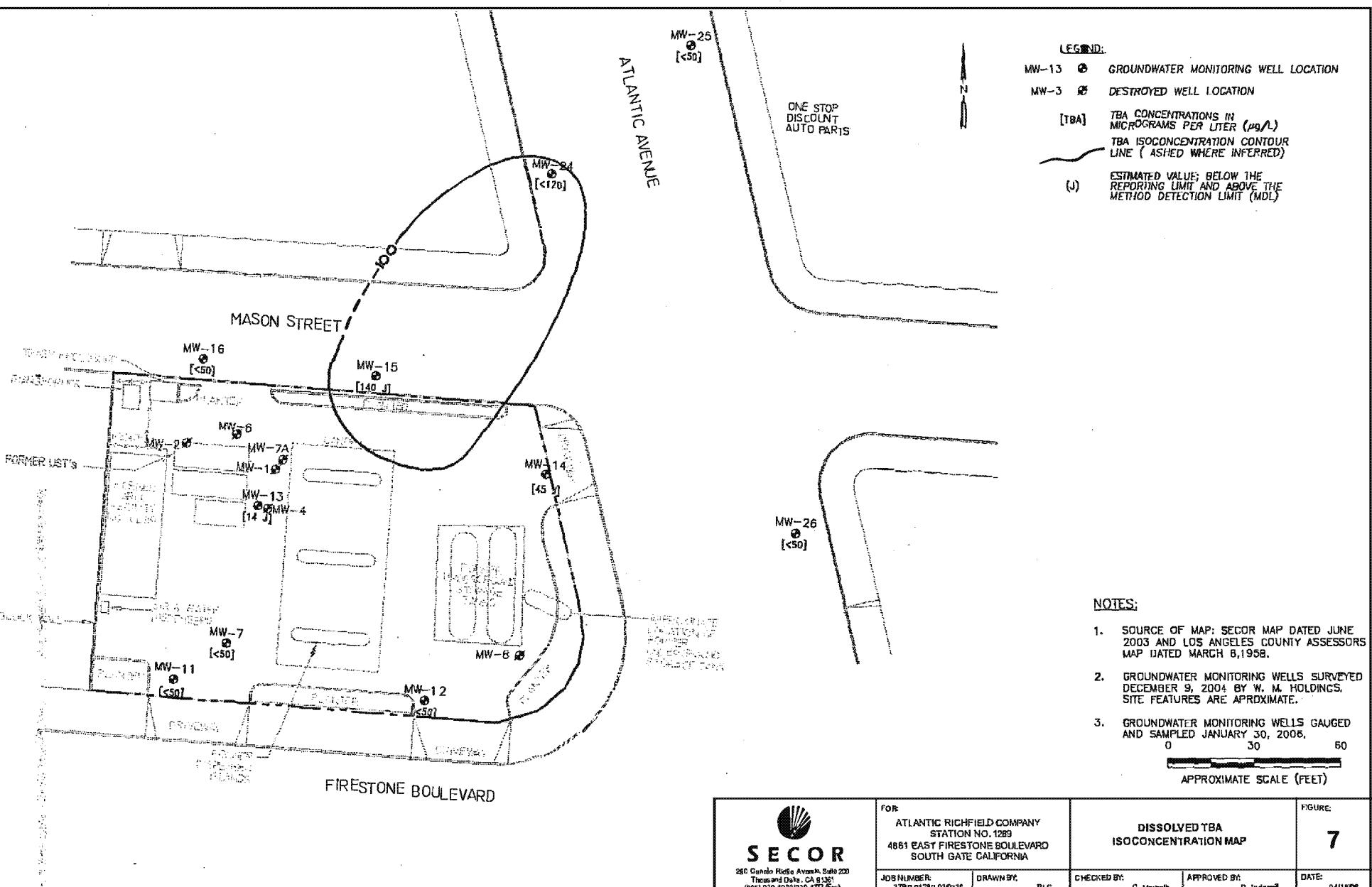








SECOR	FOR: ATLANTIC RICHFIELD COMPANY STATION NO. 1289 4861 EAST FIRESTONE BOULEVARD SOUTH GATE CALIFORNIA	FIGURE: DISSOLVED MTBE ISOCONCENTRATION MAP	6
290 Condor Ridge Avenue, Suite 200 Thousand Oaks, CA 91361 (805) 493-1265/730-1217 (Fax)	JOB NUMBER: 37BP.01269.02/0136	DRAWN BY: RLE	CHECKED BY: G. Macrae



TABLES

TABLE 2
PROPOSED GROUNDWATER SAMPLING SCHEDULE
FORMER ARCO STATION NO. 1289
4861 EAST FIRESTONE BOULEVARD
SOUTH GATE, CALIFORNIA

Well Number	Quarter 1	Quarter 2	Quarter 3	Quarter 4
MW-7	X	X	X	X
MW-11		X		
MW-12	X	X	X	X
MW-13	X	X	X	X
MW-14	X	X	X	X
MW-15	X	X	X	X
MW-16	X	X	X	X
MW-24	X	X	X	X
MW-25	X	X	X	X
MW-26	X	X	X	X
Proposed Total No. of Wells Sampled (Per Quarter):	9	9	10	9

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-1	08/28/92	NS	109.62	55.92	0.00	53.70	150.00	3.10	1.30	0.60	1.40	-	-	-	-	-	-	MW-1	
	12/10/92			55.60	0.00	54.02	1500.00	20.00	10.00	6.40	52.00	-	-	-	-	-	-	MW-1	
	03/24/93			55.00	0.00	54.62	200.00	11.00	0.91	0.74	4.60	-	-	-	-	-	-	MW-1	
	06/22/93			54.45	0.00	55.17	<50	6.60	2.40	<0.30	1.20	-	-	-	-	-	-	MW-1	
	09/13/93			53.77	0.00	55.85	65.00	12.00	1.20	<0.30	<0.6	-	-	-	-	-	-	MW-1	
	12/06/93			52.64	0.00	56.98	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/94			51.78	0.00	57.84	39.00	3.30	1.40	<0.40	0.92	-	-	-	-	-	-	MW-1	
	04/19/94			51.56	0.00	58.06	<50	11.00	6.60	0.40	2.40	-	-	-	-	-	-	MW-1	
	07/19/94			51.24	0.00	58.38	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-1	
	11/08/94			51.36	0.00	58.26	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-1	
	02/13/95			50.34	0.00	59.28	53.00	18.00	5.50	0.53	2.70	-	-	-	-	-	-	MW-1	
	04/17/95			50.00	0.00	59.62	<50	2.50	0.32	<0.30	<0.60	-	-	-	-	-	-	MW-1	
	07/31/95			49.46	0.00	60.16	<50	21.00	2.50	0.36	1.50	-	-	-	-	-	-	MW-1	
	10/30/95			49.21	0.00	60.41	<50	13.00	1.30	0.34	1.30	-	-	-	-	-	-	MW-1	
	01/22/96			47.78	0.00	61.84	59.00	36.00	8.80	0.88	2.60	-	-	-	-	-	-	MW-1	
	04/08/96			48.35	0.00	61.27	<50	4.40	0.56	0.54	5.20	-	-	-	-	-	-	MW-1	
	07/16/96			48.16	0.00	61.46	<50	25.00	4.60	0.85	2.60	<10	-	-	-	-	-	MW-1	
	10/14/96			48.30	0.00	61.32	<50	<0.30	1.80	<0.30	0.79	-	-	-	-	-	-	MW-1	
	02/28/97			43.80	0.00	65.82	160.00	57.00	24.00	5.20	21.00	13.00	-	-	-	-	-	MW-1	
	05/14/97	NS		43.79	0.00	65.83	-	-	-	-	-	-	-	-	-	-	-		
	07/10/97			44.06	0.00	65.56	170.00	85.00	14.00	4.30	11.00	29.00	-	-	-	-	-	MW-1	
	10/06/97			42.80	0.00	66.82	-	-	-	-	-	-	-	-	-	-	-		
	03/11/98			44.34	0.00	65.28	380.00	140.00	52.00	5.20	14.00	66.00	-	-	-	-	-	MW-1	
	06/03/98			47.83	0.00	61.79	500.00	180.00	59.00	13.00	36.00	89.00	-	-	-	-	-	MW-1	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPe (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-7	08/28/92	NS	109.01	55.45	0.00	53.56	290.00	5.00	1.00	<0.30	0.80	-	-	-	-	-	-	MW-7	
	12/10/92			55.15	0.00	53.86	1800.00	85.00	18.00	2.30	15.00	-	-	-	-	-	-	MW-7	
	03/24/93			54.56	0.00	54.45	640.00	54.00	14.00	0.89	3.10	-	-	-	-	-	-	MW-7	
	06/22/93			53.99	0.00	55.02	<50	1.10	0.82	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	09/13/93			53.30	0.00	55.71	<50	14.00	1.20	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	12/05/93			52.27	0.00	56.74	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/94			51.46	0.00	57.55	44.00	3.80	0.49	<0.40	0.59	-	-	-	-	-	-	MW-7	
	04/19/94			51.23	0.00	57.78	<50	2.50	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	07/19/94			50.90	0.00	58.11	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	11/08/94			50.75	0.00	58.26	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	02/13/95			49.98	0.00	59.03	<50	22.00	0.43	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	04/17/95			49.70	0.00	59.31	72.00	29.00	0.38	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	07/31/95			49.12	0.00	59.89	80.00	51.00	0.67	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	10/30/95			48.89	0.00	60.12	140.00	66.00	0.76	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	01/22/96			48.50	0.00	60.51	250.00	130.00	1.30	<1.2	<2.4	-	-	-	-	-	-	MW-7	
	04/08/96			48.10	0.00	60.91	220.00	120.00	0.97	0.87	<1.2	-	-	-	-	-	-	MW-7	
	07/16/96			48.06	0.00	60.95	220.00	120.00	1.40	1.10	<2.0	<10	-	-	-	-	-	MW-7	
	10/14/96			47.90	0.00	61.11	110.00	57.00	0.91	<0.30	<0.60	-	-	-	-	-	-	MW-7	
	02/28/97			46.70	0.00	62.31	410.00	190.00	2.60	<1.5	<3.0	12.00	-	-	-	-	-	MW-7	
	05/14/97	NS	46.65	0.00	62.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/10/97			46.93	0.00	62.08	240.00	150.00	1.10	3.40	<2.0	23.00	-	-	-	-	-	MW-7	
	10/06/97	NS	46.93	0.00	62.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/11/98			46.25	0.00	62.76	290.00	130.00	<1.5	8.10	<3.0	<50	-	-	-	-	-	MW-7	
	06/03/98			45.68	0.00	63.33	360.00	160.00	<1.5	12.00	<3.0	<50	-	-	-	-	-	MW-7	
	10/21/98			45.61	0.00	63.40	<500	270.00	<3.0	9.40	<6.0	<100	-	-	-	-	-	MW-7	
	12/16/98			44.50	0.00	64.51	<50	7.30	<0.30	0.36	<0.60	<10	-	-	-	-	-	MW-7	
	03/17/99			44.97	0.00	64.04	1000.00	710.00	<6.0	45.00	<12	<200	-	-	-	-	-	MW-7	
	06/14/99			43.68	0.00	65.33	930.00	470.00	<4.3	32.00	<8.6	<140	-	-	-	-	-	MW-7	
	08/28/99			43.63	0.00	65.38	1300.00	480.00	7.00	35.00	12.00	25.00	-	-	-	-	-	MW-7	
	11/22/99			44.39	0.00	64.62	370.00	150.00	<1.5	9.00	3.40	<50	-	-	-	-	-	MW-7	
	03/16/00			44.06	0.00	64.95	530.00	180.00	0.38	7.30	<1.7	11.00	<48	<2.0	<2.8	<3.2	-	MW-7	
	05/08/00			44.14	0.00	64.87	300.00	190.00	0.60 J	7.40	4.6 J	17.00	<10	<1.0	<1.1	<1.4	-	MW-7	
	08/16/00			44.02	0.00	64.99	290.00	130.00	0.22 J	4.80	<0.82	6.70	6.3 J	<0.50	<0.57	<0.68	-	MW-7	
	11/01/00			110.94	44.65	0.00	66.29	190.00	100.00	0.11 J	2.40	<0.82	5.20	10 J	<0.50	<0.57	<0.68	-	MW-7

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPÉ (µg/L)	ETBE (µg/L)	TAME (µg/L)	Bthalol (µg/L)	Sample ID	Comments
MW-7	02/15/01	NS	110.94	44.11	0.00	66.83	160.00	84.00	<1.0	2.5 J	<1.0	3.8 J	<10	<2.0	<2.0	<2.0	<2.0	MW-7	
	05/16/01			44.35	0.00	66.56	170.00	71.00	<1.0	8.90	<1.0	3.1 J	17 J	<2.0	<2.0	<2.0	<2.0	MW-7	
	07/30/01			44.71	0.00	66.20	130.00	73.00	<1.0	3.4 J	<1.0	2.5 J	<10	<2.0	<2.0	<2.0	<2.0	MW-7	
	10/29/01			45.23	0.00	65.68	110.00	83.00	<1.0	2.8 J	<1.0	2.3 J	<10	<2.0	<2.0	<2.0	<2.0	MW-7	
	01/30/02			44.98	0.00	65.93	98 J	14.00	<1.0	3.1 J	<1.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	MW-7	
	04/30/02			45.20	0.00	65.71	62 J	2.4 J	<1.0	1.1 J	<1.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	MW-7	
	08/27/02			45.63	0.00	65.28	170.00	68.00	0.23 J	0.46 J	0.24 J	2.2 J	<50	<5.0	<5.0	<5.0	<5.0	MW-7	
	12/26/02			46.48	0.00	64.43	140.00	89.00	<2.0	0.28 J	<4.0	3.1 J	<50	<5.0	<5.0	<5.0	<5.0	MW-7	
	02/24/03			46.49	0.00	64.42	20 J	0.93 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	04/21/03			46.50	0.00	64.41	28 J	0.88 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	07/22/03			46.90	0.00	64.01	79.00	14.00	<2.0	<2.0	<4.0	0.45 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	10/31/03			47.16	0.00	63.75	100.00	68.00	<2.0	0.29 J	<4.0	2.2 J	<50	0.35 J	<5.0	<5.0	<150	MW-7	
	03/16/04			46.98	0.00	63.93	45 J	23.00	<2.0	<2.0	<4.0	0.66 J	<50	0.27 J	<5.0	<5.0	<150	MW-7	
	06/22/04			47.28	0.00	63.63	52.00	21.00	<2.0	<2.0	<4.0	1.1 J	<50	0.34 J	<5.0	<5.0	<150	MW-7	
	09/13/04			46.37	0.00	64.54	-	-	-	-	-	-	-	-	-	-	-	MW-7	
	09/14/04			-	-	-	<50	4.80	<2.0	<2.0	<4.0	0.66 J	<5.0	<5.0	<5.0	<5.0	<150	MW-7	
	12/09/04		110.93	46.50	0.00	64.43	38 J	9.00	<2.0	<2.0	<4.0	0.63 J	1.3 J	0.23 J	0.080 J	<5.0	<150	MW-7	
	02/07/05			46.44	0.00	64.49	47 J	8.70	<2.0	<2.0	<4.0	0.52 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	05/02/05			46.06	0.00	64.87	36 J	6.70	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	08/01/05			45.76	0.00	65.17	<50	3.80	<2.0	<2.0	<4.0	0.34 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	12/01/05			43.71	0.00	67.22	<50	1.3 J	<2.0	<2.0	<4.0	0.32 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	01/30/06			44.62	0.00	66.31	26 J	2.90	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	0.38 J	<150	MW-7	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPÉ (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-8	08/28/92	NS	108.68	55.01	0.00	53.67	<100	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	12/10/92			54.75	0.00	53.93	200.00	2.90	2.40	1.20	8.90	-	-	-	-	-	-	MW-8	
	03/24/93			54.13	0.00	54.55	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	06/22/93			53.57	0.00	55.11	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	09/13/93			52.98	0.00	55.70	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	12/06/93			51.46	0.00	57.22	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/94			50.61	0.00	58.07	53.00	1.80	<0.40	<0.40	0.54	-	-	-	-	-	-	MW-8	
	04/19/94			50.38	0.00	58.30	<50	0.82	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	07/19/94			50.00	0.00	58.68	<50	0.91	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	11/08/94			51.40	0.00	57.28	<50	0.80	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	02/13/95			49.20	0.00	59.48	52.00	1.50	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	04/17/95			48.80	0.00	59.88	<50	1.00	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	07/31/95			48.26	0.00	60.42	59.00	8.50	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	10/30/95			48.10	0.00	60.58	61.00	2.20	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	01/22/96			47.75	0.00	60.93	60.00	2.90	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	04/08/96			47.20	0.00	61.48	72.00	4.90	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	07/16/96			47.06	0.00	61.62	60.00	5.10	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	10/14/96			47.18	0.00	61.50	70.00	5.00	<0.30	<0.30	<0.60	-	-	-	-	-	-	MW-8	
	02/28/97			45.93	0.00	62.75	83.00	11.00	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	05/14/97	NS		45.86	0.00	62.82	-	-	-	-	-	-	-	-	-	-	-	-	
	07/10/97			46.16	0.00	62.52	120.00	28.00	<0.30	<0.30	<0.60	19.00	-	-	-	-	-	MW-8	
	10/06/97	NS		46.00	0.00	62.68	-	-	-	-	-	-	-	-	-	-	-	-	
	03/11/98			45.43	0.00	63.25	210.00	71.00	<0.60	<0.60	<1.2	22.00	-	-	-	-	-	MW-8	
	06/03/98			44.81	0.00	63.87	320.00	110.00	<1.0	<1.0	<2.0	<33	-	-	-	-	-	MW-8	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-11	11/22/99		110.63	40.43	0.00	70.20	170.00	41.00	0.31	<0.30	<0.60	<10	-	-	-	-	-	MW-11	
	03/16/00			40.29	0.00	70.34	180.00	7.00	<0.093	0.29	<0.83	-	<24	<1.0	<1.4	<1.6	-	MW-11	
	05/08/00			40.35	0.00	70.28	300.00	78.00	<0.093	0.39 J	<0.82	-	<5.0	<0.50	<0.57	<0.68	-	MW-11	
	08/16/00			40.41	0.00	70.22	120.00	49.00	0.13 J	0.22 J	<0.82	-	<5.0	<0.50	<0.57	<0.68	-	MW-11	
	11/01/00		110.66	40.84	0.00	69.82	26 J	4.60	<0.093	<0.18	<0.82	-	<5.0	<0.50	<0.57	<0.68	-	MW-11	
	02/15/01			40.75	0.00	69.91	61 J	18.00	<1.0	<1.0	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	05/16/01		110.84	40.74	0.00	70.10	70 J	12.00	<1.0	<1.0	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	07/30/01			40.72	0.00	70.12	<50	3.5J	<1.0	<1.0	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	10/29/01			40.95	0.00	69.89	<50	1.4 J	<1.0	<1.0	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	01/30/02			40.86	0.00	69.98	64 J	8.50	<1.0	<1.0	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	04/30/02			41.09	0.00	69.75	73 J	8.90	<1.0	1.1 J	<1.0	-	<10	<2.0	<2.0	<2.0	-	MW-11	
	08/27/02		110.64	41.29	0.00	69.35	46 J	0.33 J	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	-	MW-11	
	12/26/02			42.41	0.00	68.23	51.00	1.4 J	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	-	MW-11	
	02/24/03			53.51	0.00	57.13	67.00	3.30	<2.0	1.1 J	0.82 J	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	04/21/03			42.88	0.00	67.76	82.00	1.7 J	<2.0	0.31 J	<4.0	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	07/22/03			43.36	0.00	67.28	38 J	3.00	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	10/31/03			43.72	0.00	66.92	<50	0.30 J	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	03/16/04			44.02	0.00	66.62	<50	<2.0	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	06/22/04			44.21	0.00	66.43	31 J	0.59 J	<2.0	<2.0	<4.0	-	<50	<5.0	<5.0	<5.0	<150	MW-11	
	09/13/04	NS		44.51	0.00	66.13	-	-	-	-	-	-	-	-	-	-	-	MW-11	
	09/14/04			-	-	-	57.00	6.30	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	
	12/09/04		110.66	44.78	0.00	65.88	27 J	4.50	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	0.36 J	<150	MW-11	
	02/07/05			44.67	0.00	65.99	23 J	1.1 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	
	05/02/05			44.44	0.00	66.22	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	
	08/01/05			44.07	0.00	66.59	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	
	12/01/05			43.21	0.00	67.45	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	
	01/30/06			42.99	0.00	67.67	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-11	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments		
MW-12	11/22/99	A	110.40	40.95	0.00	69.45	2800.00	1200.00	14.00	54.00	50.00	7.60	-	-	-	-	-	MW-12			
	11/22/99		-	-	-	-	-	-	-	-	-	290.00	-	-	-	-	-	MW-12	Method 8260		
	03/16/00		40.75	0.00	69.65	1100.00	860.00	7.00	24.00	17.00	7.00	<240	<10	<14	<16	-	-	MW-12			
	05/08/00		40.80	0.00	69.60	2000.00	<0.11	11.00	38.00	22.00	7.60	8.4 J	10.00	<0.57	<0.68	-	-	MW-12			
	08/16/00		40.91	0.00	69.49	2500.00	1200.00	11 J	65.00	41.00	8.5 J	<130	<13	<14	<17	-	-	MW-12			
	11/01/00		110.45	41.34	0.00	69.11	2400.00	1300.00	4.9 J	81.00	12.00	8.1 J	<50	7.0 J	<5.7	<6.8	-	-	MW-12		
	02/15/01		41.25	0.00	69.20	2500.00	1400.00	<10	90.00	42.00	<20	<100	<20	<20	<20	<20	-	-	MW-12		
	05/16/01		110.41	41.22	0.00	69.19	3100.00	1400.00	4.9 J	170.00	120.00	<40	<200	<40	<40	<40	<40	-	-	MW-12	
	07/30/01		41.34	0.00	69.07	1300.00	510.00	<5.0	49.00	9.00	<10	<50	<10	<10	<10	<10	-	-	MW-12		
	10/29/01		41.58	0.00	68.83	1400.00	780.00	<10	120.00	<10	<20	<100	<20	<20	<20	<20	-	-	MW-12		
	01/30/02		41.44	0.00	68.97	1300.00	610.00	<10	97.00	<10	<20	<100	<20	<20	<20	<20	-	-	MW-12		
	04/30/02		41.62	0.00	68.79	860.00	460.00	<5.0	91.00	20 J	<10	<50	<10	<10	<10	<10	-	-	MW-12		
	08/27/02		41.80	0.00	68.61	800.00	330.00	2.2 J	41.00	7.2 J	5.5 J	<200	5.2 J	<20	<20	<20	-	-	MW-12		
	12/26/02		42.85	0.00	67.56	530.00	270.00	<8.0	1.6 J	<16	4.6 J	<200	7.6 J	<20	<20	<20	-	-	MW-12		
	02/24/03		42.81	0.00	67.80	670.00	250.00	2.4 J	29.00	26.00	9.2 J	<200	4.7 J	<20	<20	<600	-	-	MW-12		
	04/21/03		42.96	0.00	67.45	610.00	180.00	2.0 J	11.00	4.6 J	10 J	<120	4.6 J	<12	<12	<380	-	-	MW-12		
	07/22/03		43.42	0.00	66.99	450.00	250.00	3.2 J	12.00	2.4 J	4.4 J	<200	7.9 J	<20	<20	<600	-	-	MW-12		
	10/31/03		43.82	0.00	66.59	98.00	41.00	<2.0	0.45 J	<4.0	0.69 J	<50	27.00	<5.0	<5.0	<150	-	-	MW-12		
	03/16/04		43.91	0.00	66.50	220.00	110.00	0.94 J	2.1 J	<8.0	<10	<100	17.00	<10	<10	<300	-	-	MW-12		
	06/22/04		44.26	0.00	66.15	230.00	75.00	0.57 J	0.55 J	<4.0	0.41 J	<50	19.00	<5.0	<5.0	<150	-	-	MW-12		
	06/22/04	DUP	-	-	-	230.00	79.00	0.58 J	0.40 J	<4.0	0.46 J	<50	22.00	<5.0	<5.0	<150	DUP-1289-20040622				
	09/13/04	44.59	0.00	65.82	230.00	87.00	0.57 J	1.1 J	<4.0	0.77 J	<50	23.00	<5.0	<5.0	<150	MW-12					
	09/13/04	DUP	-	-	-	170.00	78.00	0.48 J	0.42 J	<4.0	0.59 J	<50	19.00	<5.0	<5.0	<150	DUP-1289-20040913				
	12/09/04	110.44	44.93	0.00	65.51	200.00	72.00	0.49 J	0.62 J	0.34 J	0.52 J	2.5 J	18.00	0.52 J	<5.0	<150	MW-12				
	12/09/04	DUP	-	-	-	210.00	64.00	0.44 J	0.76 J	<8.0	0.56 J	<100	16.00	0.40 J	<10	<300	DUP-1289-20041209				
	02/07/05	44.85	0.00	65.59	180.00	52.00	<2.0	<2.0	<4.0	0.40 J	<50	20.00	<5.0	<5.0	<150	MW-12					
	02/07/05	DUP	-	-	-	150.00	51.00	<2.0	<2.0	<4.0	0.40 J	<50	21.00	<5.0	<5.0	<150	DUP-1289-20050207				
	05/02/05	44.67	0.00	65.77	77.00	12.00	<2.0	<2.0	<4.0	<5.0	<50	24.00	<5.0	<5.0	<150	MW-12					
	05/02/05	DUP	-	-	-	98.00	14.00	<2.0	<2.0	<4.0	<5.0	<50	30.00	<5.0	<5.0	<150	DUP-1289-20050502				
	08/01/05	44.40	0.00	66.04	91.00	13.00	<2.0	<2.0	<4.0	0.80 J	<50	18.00	<5.0	<5.0	<150	MW-12					
	08/01/05	DUP	-	-	-	100.00	13.00	<2.0	<2.0	<4.0	0.82 J	<50	18.00	<5.0	<5.0	<150	DUP-1289-20050801				
	12/01/05	43.69	0.00	66.75	120.00	28.00	<2.0	<2.0	<4.0	0.92 J	<50	17.00	<5.0	<5.0	<150	MW-12					
	12/01/05	DUP	-	-	-	100.00	39.00	<2.0	<2.0	<4.0	0.67 J	<50	16.00	<5.0	<5.0	<150	DUP-1289-20051201				
	01/30/06	-	-	-	83.00	7.50	<2.0	<2.0	<4.0	1.6 J	<50	13.00	<5.0	<5.0	<150	DUP-1289-20060130					
	01/30/06	43.40	0.00	67.04	52.00	6.20	<2.0	<2.0	<4.0	2.0 J	<50	13.00	<5.0	<5.0	<150	MW-12					

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd, South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-13	11/22/99		111.42	41.86	0.00	69.56	12000.00	2300.00	2300.00	240.00	2200.00	<1,000	-	-	-	-	-	MW-13	
	03/16/00			41.59	0.00	69.83	1600.00	660.00	1.20	26.00	16.00	190.00	<120	<5.0	<7.0	<8.0	-	MW-13	
	05/08/00			41.66	0.00	69.76	1600.00	820.00	25 J	31 J	48 J	210.00	<100	<10	<11	<14	-	MW-13	
	08/16/00			41.78	0.00	69.64	1500.00	750.00	17 J	42.00	11 J	180.00	<50	<5.0	<5.7	<6.8	-	MW-13	
	11/01/00		111.48	42.35	0.00	69.13	650.00	310.00	24.00	8.20	67.00	200.00	40J	<2.0	<2.3	<2.7	-	MW-13	
	02/15/01			42.23	0.00	69.25	10000.00	2200.00	2200.00	240.00	2700.00	580.00	<400	<80	<80	<80	-	MW-13	
	05/16/01		111.46	42.13	0.00	69.33	1800.00	620.00	100.00	50.00	160.00	160.00	<100	<20	<20	<20	-	MW-13	
	07/30/01			42.23	0.00	69.23	920.00	290.00	15 J	25.00	22.00	190.00	73J	<8.0	<8.0	<8.0	-	MW-13	
	10/29/01			42.35	0.00	69.11	1100.00	840.00	24J	88.00	11 J	220.00	<100	<20	<20	<20	-	MW-13	
	01/30/02			42.20	0.00	69.26	1200.00	470.00	41 J	72.00	29 J	240.00	<100	<20	<20	<20	-	MW-13	
	04/30/02			42.34	0.00	69.12	1500.00	500.00	97.00	70.00	110.00	200.00	100 J	<10	<10	<10	-	MW-13	
	08/27/02		111.45	42.36	0.00	69.09	1500.00	310.00	110.00	79.00	120.00	300.00	120 J	<25	<25	<25	-	MW-13	
	12/26/02			43.92	0.00	67.53	14000.00	3000.00	3500.00	450.00	2600.00	810.00	420 J	<200	<200	<200	-	MW-13	
	02/24/03			44.06	0.00	67.39	3400.00	860.00	550.00	31 J	570.00	410.00	110 J	<100	<100	<100	<3,000	MW-13	
	04/21/03			44.24	0.00	67.21	1700.00	330.00	240.00	17.00	280.00	310.00	80 J	<25	<25	<25	<750	MW-13	
	07/22/03			44.66	0.00	66.79	680.00	190.00	37.00	25.00	39.00	220.00	100 J	<12	<12	<12	<380	MW-13	
	10/31/03			45.23	0.00	66.22	1100.00	510.00	2.6 J	36.00	2.3 J	310.00	100 J	<12	<12	<12	<380	MW-13	
	03/16/04			45.15	0.00	66.30	420.00	240.00	2.2 J	2.5 J	6.8 J	160.00	97 J	<25	<25	<25	<750	MW-13	
	06/22/04			45.61	0.00	65.84	150.00	17.00	<2.0	<2.0	<4.0	110.00	88.00	0.32 J	<5.0	<5.0	<150	MW-13	
	09/13/04			45.77	0.00	65.68	230.00	87.00	0.57 J	1.1 J	<4.0	0.77 J	<50	23.00	<5.0	<5.0	<150	MW-13	
	09/13/04	DUP		-	-	-	170.00	78.00	0.48 J	0.42 J	<4.0	0.59 J	<50	19.00	<5.0	<5.0	<150	DUP-1289-20040913	
	12/09/04		111.48	46.44	0.00	65.04	150.00	2.4 J	2.0 J	0.60 J	6.9 J	110.00	140 J	0.40 J	<25	<25	<750	MW-13	
	02/07/05	INA		45.50	0.00	65.98	-	-	-	-	-	-	-	-	-	-	-		
	05/02/05			45.80	0.00	65.68	100.00	0.71 J	0.98 J	<2.0	2.7 J	110.00	46 J	<5.0	<5.0	<5.0	<150	MW-13	
	08/01/05			45.40	0.00	66.08	49 J	0.38 J	<2.0	<2.0	<4.0	97.00	38.00	0.26 J	<5.0	<5.0	<150	MW-13	
	12/01/05			44.25	0.00	67.23	64.00	<2.0	<2.0	<2.0	<4.0	160.00	33 J	0.38 J	<5.0	<5.0	<150	MW-13	
	01/30/06			43.65	0.00	67.83	52.00	<2.0	<2.0	<2.0	<4.0	190.00	14 J	<5.0	<5.0	<5.0	<150	MW-13	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-14	11/01/00		110.26	42.30	0.00	67.96	290.00	110.00	0.24 J	<0.18	1.3 J	140.00	42J	<0.50	<0.57	<0.68	-	MW-14	
	02/15/01			42.17	0.00	68.09	630.00	280.00	<1.0	<1.0	5.80	140.00	31.00	<2.0	<2.0	<2.0	-	MW-14	
	05/16/01			42.11	0.00	68.11	450.00	210.00	<4.0	<4.0	<4.0	150.00	<40	<8.0	<8.0	<8.0	-	MW-14	
	07/30/01			42.15	0.00	68.07	140.00	36.00	<1.0	<1.0	8.20	42.00	27.00	<2.0	<2.0	<2.0	-	MW-14	
	10/29/01			42.38	0.00	67.84	130.00	75.00	<1.0	<1.0	2.4 J	57.00	37.00	<2.0	<2.0	<2.0	-	MW-14	
	01/30/02			42.38	0.00	67.84	560.00	400.00	12J	<4.0	13J	180.00	47J	<8.0	<8.0	<8.0	-	MW-14	
	04/30/02			42.59	0.00	67.63	680.00	360.00	<5.0	<5.0	<5.0	230.00	120.00	<10	<10	<10	-	MW-14	
	08/27/02			42.78	0.00	67.44	360.00	160.00	<4.0	<4.0	0.52J	45.00	36J	<10	<10	<10	-	MW-14	
	12/26/02			43.36	0.00	66.86	330.00	170.00	<8.0	<8.0	<16	58.00	41J	<20	<20	<20	-	MW-14	
	02/24/03			43.44	0.00	66.78	850.00	470.00	<8.0	<8.0	<16	150.00	150J	<20	<20	<20	<600	MW-14	
	04/21/03			43.45	0.00	66.77	1000.00	560.00	<8.0	<8.0	<16	200.00	77J	<20	<20	<20	<600	MW-14	
	07/22/03			43.80	0.00	66.42	1100.00	740.00	<8.0	<8.0	2.1 J	210.00	87J	<20	<20	<20	<600	MW-14	
	10/31/03			44.09	0.00	66.13	240.00	160.00	<2.0	<2.0	<4.0	78.00	47J	0.72J	<5.0	<5.0	<150	MW-14	
	03/16/04			44.18	0.00	66.04	450.00	380.00	<8.0	<8.0	<16	150.00	88J	1.0 J	<20	<20	<600	MW-14	
	06/22/04			44.56	0.00	65.66	710.00	450.00	<8.0	<8.0	<16	64.00	42J	1.3J	<20	<20	<600	MW-14	
	09/13/04			44.99	0.00	65.23	850.00	530.00	<8.0	<8.0	<16	130.00	51J	2.2 J	<20	<20	<600	MW-14	
	12/09/04		110.25	45.45	0.00	64.80	970.00	570.00	<20	1.2 J	<40	83.00	120 J	1.6 J	0.60 J	<50	<1,500	MW-14	
	02/07/05			45.43	0.00	64.82	1000.00	700.00	<20	<20	<40	110.00	<500	<50	<50	<50	<1,500	MW-14	
	05/02/05			45.31	0.00	64.94	320.00	490.00	<20	<20	<40	110.00	<500	<50	<50	<50	<1,500	MW-14	
	08/01/05			45.14	0.00	65.11	420.00	240.00	<8.0	<8.0	<16	110.00	59J	1.7 J	<20	<20	<600	MW-14	
	12/01/05			44.50	0.00	65.75	500.00	310.00	<4.0	<4.0	1.6 J	120.00	43J	2.1 J	<10	<10	<300	MW-14	
	01/30/06			44.13	0.00	66.12	560.00	300.00	<10	<10	<20	120.00	45J	2.5 J	<25	<25	<750	MW-14	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-15	11/01/00		110.23	42.29	0.00	67.94	2500.00	110.00	2.40	1.2 J	8.80	43.00	9.7 J	<0.50	<0.57	<0.68	-	MW-15	
	02/15/01			42.14	0.00	68.09	3,800 J	2200.00	120 J	33 J	170.00	680.00	<250	<50	<50	<50	-	MW-15	
	05/16/01			41.89	0.00	68.33	2700.00	1500.00	<25	76 J	52 J	480.00	<250	<50	<50	<50	-	MW-15	
	07/30/01			42.21	0.00	68.01	1600.00	1100.00	<20	48 J	21 J	280.00	<200	<40	<40	<40	-	MW-15	
	10/29/01			42.40	0.00	67.82	750.00	770.00	<10	29 J	<10	190.00	<100	<20	<20	<20	-	MW-15	
	01/30/02			42.19	0.00	68.03	4600.00	3200.00	48 J	350.00	150.00	980.00	<250	<50	<50	<50	-	MW-15	
	04/30/02			42.20	0.00	68.02	3900.00	1900.00	<20	150.00	<20	900.00	340 J	<40	<40	<40	-	MW-15	
	08/27/02			42.35	0.00	67.86	2000.00	700.00	<20	200.00	<40	740.00	260 J	<50	<50	<50	-	MW-15	
	12/26/02			43.20	0.00	67.01	1400.00	590.00	<20	170.00	12 J	610.00	280 J	<50	<50	<50	-	MW-15	
	02/24/03			43.35	0.00	66.86	2900.00	1600.00	<20	77.00	18 J	590.00	610.00	<50	<50	<50	<1,500	MW-15	
	04/21/03			43.22	0.00	66.99	1900.00	1200.00	<20	76.00	11 J	530.00	200 J	<50	<50	<50	<1,500	MW-15	
	07/22/03			43.78	0.00	66.43	2500.00	1900.00	<20	150.00	12 J	680.00	290 J	<50	<50	<50	<1,500	MW-15	
	10/31/03			44.04	0.00	66.17	270.00	64.00	<10	<10	<20	420.00	150 J	<25	<25	<25	<750	MW-15	
	03/16/04			44.32	0.00	65.89	260.00	51.00	<5.0	3.6 J	<10	300.00	100 J	<12	<12	<12	<380	MW-15	
	06/22/04			44.51	0.00	65.70	240.00	20.00	<8.0	<8.0	<16	300.00	<200	<20	<20	<20	<600	MW-15	
	09/13/04			44.75	0.00	65.46	430.00	120.00	<10	12.00	<20	360.00	160 J	<25	<25	<25	<750	MW-15	
	12/09/04			45.09	0.00	65.14	330.00	11 J	<20	<20	<40	480.00	440 J	<50	<50	3.8 J	<1,500	MW-15	
	02/07/05			45.00	0.00	65.23	210.00	11.00	<8.0	<8.0	<16	480.00	110 J	<20	<20	<20	<600	MW-15	
	05/02/05			44.90	0.00	65.33	190.00	<20	<20	<20	<40	470.00	120 J	<50	<50	<50	<1,500	MW-15	
	08/01/05			44.77	0.00	65.46	290.00	<10	<10	<10	<20	410.00	130 J	<25	<25	<25	<750	MW-15	
	12/01/05			44.34	0.00	65.89	270.00	0.84 J	<2.0	<2.0	<4.0	470.00	170.00	0.29 J	<5.0	<5.0	<150	MW-15	
	01/30/06			43.93	0.00	66.30	370.00	<20	<20	<20	<40	520.00	140 J	<50	<50	<50	<1,500	MW-15	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-16	11/01/00	NS	109.96	41.71	0.00	68.25	330.00	230.00	2.0J	0.76 J	<3.3	13 J	<20	<2.0	<2.3	<2.7	-	MW-16	
	02/15/01			42.25	0.00	67.71	520 J	400.00	<4.0	<4.0	<4.0	31.00	<40	<8.0	<8.0	<8.0	-	MW-16	
	05/16/01			41.49	0.00	68.30	1200.00	740.00	<5.0	13 J	14 J	61.00	<50	<10	<10	<10	<10	-	MW-16
	07/30/01			41.95	0.00	67.84	240.00	120.00	<2.0	<2.0	<2.0	31.00	<20	<4.0	<4.0	<4.0	<4.0	-	MW-16
	10/29/01			42.18	0.00	67.61	150.00	66.00	<1.0	1.6 J	<1.0	22.00	<10	<2.0	<2.0	<2.0	<2.0	-	MW-16
	01/30/02			41.60	0.00	68.19	720.00	610.00	<5.0	16 J	15 J	35.00	<50	<10	<10	<10	<10	-	MW-16
	04/30/02			41.62	0.00	68.17	650.00	400.00	<5.0	10 J	<5.0	34.00	<50	<10	<10	<10	<10	-	MW-16
	08/27/02			42.15	0.00	67.62	140.00	67.00	0.18 J	0.77 J	<4.0	10.00	8.7 J	<5.0	<5.0	<5.0	<5.0	-	MW-16
	12/26/02			42.74	0.00	67.03	140.00	99.00	<2.0	1.1 J	<4.0	12.00	<50	<5.0	<5.0	<5.0	<5.0	-	MW-16
	02/24/03			42.73	0.00	67.04	-	-	-	-	-	-	-	-	-	-	-	-	
	04/21/03			42.83	0.00	66.94	320.00	240.00	<2.0	2.40	<4.0	8.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	07/22/03			43.21	0.00	66.56	350.00	290.00	<10	2.6 J	<20	8.2 J	<250	<25	<25	<25	<750	MW-16	
	10/31/03			43.72	0.00	66.05	48 J	11.00	<2.0	0.26 J	<4.0	51.00	21 J	<5.0	<5.0	<5.0	<150	MW-16	
	03/16/04			44.10	0.00	65.67	48.00	3.10	<2.0	<2.0	<4.0	48.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	06/22/04			44.27	0.00	65.50	150.00	69.00	<2.0	1.9 J	<4.0	18.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	09/13/04			44.73	0.00	65.04	83.00	35.00	<2.0	0.99 J	<4.0	25.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	12/09/04			44.99	0.00	64.81	45 J	2.00	<2.0	<2.0	<4.0	36.00	40 J	0.16 J	<5.0	<5.0	<150	MW-16	
	02/07/05			44.93	0.00	64.87	44 J	1.2 J	<2.0	<2.0	<4.0	34.00	20 J	<5.0	<5.0	<5.0	<150	MW-16	
	05/02/05			44.51	0.00	65.29	130.00	56.00	<2.0	3.50	2.6 J	9.80	<50	<5.0	<5.0	<5.0	<150	MW-16	
	08/01/05			44.34	0.00	65.46	53.00	0.60 J	<2.0	<2.0	<4.0	19.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	12/01/05			43.58	0.00	66.22	31 J	0.43 J	<2.0	<2.0	<4.0	13.00	<50	<5.0	<5.0	<5.0	<150	MW-16	
	01/30/06			43.25	0.00	66.55	35 J	0.39 J	<2.0	<2.0	<4.0	12.00	<50	<5.0	<5.0	<5.0	<150	MW-16	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments	
MW-24	03/25/02	NS	109.99	-	43.48	0.00	-	<50	9.40	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MN-24	Not surveyed
	04/30/02			-	43.64	0.00	-	<50	18.00	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MN-24	
	08/27/02			43.81	0.00	66.18	55.00	31.00	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MN-24	
	12/26/02			44.61	0.00	65.38	34 J	24.00	<2.0	<2.0	<2.0	<4.0	0.48 J	<50	<5.0	<5.0	<5.0	-	MN-24	
	02/24/03			44.50	0.00	65.49	74.00	59.00	<2.0	<2.0	<2.0	<4.0	0.55 J	<50	<5.0	<5.0	<5.0	<150	MN-24	
	04/21/03			44.56	0.00	65.43	250.00	160.00	<4.0	<4.0	<4.0	<8.0	1.2 J	<100	<10	<10	<10	<300	MN-24	
	07/22/03			45.82	0.00	64.17	280.00	190.00	<2.0	<2.0	<2.0	<4.0	1.6 J	<50	<5.0	<5.0	<5.0	<150	MN-24	
	10/31/03			45.10	0.00	64.89	200.00	190.00	0.83 J	<2.0	0.62 J	2.9 J	<50	<5.0	<5.0	<5.0	<5.0	<150	MN-24	
	03/16/04			45.31	0.00	64.68	130.00	130.00	<4.0	<4.0	<4.0	<8.0	4.1 J	<100	<10	<10	<10	<300	MN-24	
	06/22/04			45.41	0.00	64.58	110.00	59.00	<2.0	<2.0	<2.0	<4.0	6.20	<50	<5.0	<5.0	<5.0	<150	MN-24	
	09/13/04			46.03	0.00	63.96	-	-	-	-	-	-	-	-	-	-	-	-	MN-24	
	09/14/04			-	-	-	61.00	57.00	<2.0	<2.0	<4.0	7.30	<50	<5.0	<5.0	<5.0	<5.0	<150	MN-24	
	12/09/04			46.36	0.00	63.67	83.00	49.00	<2.0	<2.0	<4.0	8.70	11 J	<50	<5.0	<5.0	<5.0	<150	MN-24	
	02/07/05			46.48	0.00	63.55	150.00	90.00	<2.0	<2.0	<4.0	14.00	9.4 J	<50	<5.0	<5.0	<5.0	<150	MN-24	
	05/02/05			46.31	0.00	63.72	170.00	210.00	<4.0	<4.0	<8.0	19.00	<100	<10	<10	<10	<10	<300	MN-24	
	08/01/05			46.10	0.00	63.93	95.00	59.00	<2.0	<2.0	<4.0	20.00	<50	<5.0	<5.0	<5.0	<5.0	<150	MN-24	
	12/01/05			45.50	0.00	64.53	220.00	150.00	<2.0	<2.0	<4.0	34.00	<50	<5.0	<5.0	<5.0	<5.0	<150	MN-24	
	01/30/06			45.07	0.00	64.96	390.00	200.00	<5.0	<5.0	<10	48.00	<120	<12	<12	<12	<380	MN-24		

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments	
MW-25	03/25/02	NS	109.74	-	43.01	0.00	-	<50	4.3J	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-25	Not surveyed
	04/30/02				43.14	0.00	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-25	
	08/27/02				43.42	0.00	66.32	67.00	2.30	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-25	
	12/26/02				43.98	0.00	65.76	9.5 J	1.3 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-25	
	02/24/03				44.89	0.00	64.85	22J	6.70	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	04/21/03				43.95	0.00	65.79	48J	16.00	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	07/22/03				44.21	0.00	65.53	<50	5.80	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	10/31/03				44.55	0.00	65.19	32 J	10.00	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	03/16/04				44.87	0.00	64.87	<50	1.9 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	06/22/04				45.66	0.00	64.08	24J	0.96J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	09/13/04				45.68	0.00	64.06	-	-	-	-	-	-	-	-	-	-	-		
	09/14/04				-	-	-	<50	2.60	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-25	
	12/09/04				46.18	0.00	63.59	110.00	5.90	<4.0	<4.0	<8.0	<10	<100	<10	<10	<10	<300	MW-25	
	02/07/05				46.18	0.00	63.59	25J	1.9 J	<2.0	<2.0	<4.0	<5.0	6.2 J	<5.0	<5.0	<5.0	<150	MW-25	
	05/02/05				45.99	0.00	63.78	33 J	5.80	<2.0	<2.0	<4.0	<5.0	5.4 J	<5.0	<5.0	<5.0	<150	MW-25	
	08/01/05				45.81	0.00	63.96	41 J	5.30	<2.0	<2.0	<4.0	0.40 J	<50	<5.0	<5.0	<5.0	<150	MW-25	
	12/01/05				45.28	0.00	64.49	85.00	33.00	<2.0	<2.0	<4.0	1.0 J	<50	<5.0	<5.0	<5.0	<150	MW-25	
	01/30/06				45.02	0.00	64.75	96.00	39.00	<2.0	<2.0	<4.0	1.5 J	<50	<5.0	<5.0	<5.0	<150	MW-25	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Ethanol ($\mu\text{g/L}$)	Sample ID	Comments
MW-26	03/25/02		109.66	-	42.81	0.00	-	170.00	13.00	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	MW-26	Not surveyed
	04/30/02				43.00	0.00	-	<50	12.00	<1.0	<1.0	<1.0	<2.0	<10	2.7 J	<2.0	<2.0	MW-26	
	08/27/02			43.24	0.00	66.42	170.00	10.00	<2.0	<2.0	<4.0	<5.0	<50	2.8 J	<5.0	<5.0	<5.0	MW-26	
	12/26/02			43.91	0.00	65.75	150.00	12.00	<2.0	<2.0	<4.0	<5.0	<50	3.7 J	<5.0	<5.0	<5.0	MW-26	
	02/24/03			43.85	0.00	65.81	130.00	20.00	<2.0	<2.0	<4.0	<5.0	<50	5.70	<5.0	<5.0	<150	MW-26	
	04/21/03			43.96	0.00	65.70	310.00	130.00	<2.0	<2.0	<4.0	<5.0	<50	14.00	<5.0	<5.0	<150	MW-26	
	07/22/03			44.29	0.00	65.37	54.00	17.00	<2.0	<2.0	<4.0	<5.0	<50	5.90	<5.0	<5.0	<150	MW-26	
	10/31/03			44.52	0.00	65.14	63.00	17.00	<2.0	<2.0	<4.0	<5.0	<50	8.10	<5.0	<5.0	<150	MW-26	
	03/16/04			44.82	0.00	64.84	92.00	29.00	<2.0	<2.0	<4.0	<5.0	<50	9.30	<5.0	<5.0	<150	MW-26	
	06/22/04			45.35	0.00	64.31	110.00	34.00	<2.0	<2.0	<4.0	<5.0	<50	12.00	<5.0	<5.0	<150	MW-26	
	09/13/04			45.59	0.00	64.07	110.00	58.00	<2.0	<2.0	<4.0	<5.0	<50	16.00	<5.0	<5.0	<150	MW-26	
	12/09/04			46.04	0.00	63.65	170.00	56.00	<4.0	<4.0	<8.0	0.20 J	6.6 J	11.00	0.58 J	0.78 J	<300	MW-26	
	02/07/05			46.00	0.00	63.69	230.00	42.00	<2.0	<2.0	<4.0	<5.0	<50	15.00	<5.0	<5.0	<150	MW-26	
	05/02/05			45.85	0.00	63.84	210.00	72.00	0.39 J	<2.0	<4.0	<5.0	<50	21.00	<5.0	<5.0	<150	MW-26	
	08/01/05			45.66	0.00	64.03	180.00	58.00	<2.0	0.37 J	<4.0	0.67 J	<50	19.00	<5.0	<5.0	<150	MW-26	
	12/01/05			45.07	0.00	64.62	210.00	100.00	0.60 J	<2.0	<4.0	1.2 J	<50	23.00	<5.0	<5.0	<150	MW-26	
	01/30/06			44.77	0.00	64.92	380.00	130.00	0.69 J	<2.0	<4.0	1.7 J	<50	25.00	<5.0	<5.0	<150	MW-26	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Ethanol ($\mu\text{g/L}$)	SampleID	Comments
Trip Blank	01/22/96		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	Trip Blank	
	04/08/96		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	-	-	-	-	-	-	Trip Blank	
	07/16/96		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	10/14/96		-	-	-	-	<50	<0.30	0.88	<0.30	<0.60	-	-	-	-	-	-	Trip Blank	
	02/28/97		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/11/98		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	06/03/98		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	12/16/98		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/17/99		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	06/14/99		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	08/28/99		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<5.0	-	-	-	-	-	Trip Blank	
	11/22/99		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/16/00		-	-	-	-	<9.3	<0.11	<0.093	<0.18	<0.83	<0.28	<24	<1.0	<1.4	<1.6	-	-	Trip Blank
	05/08/00		-	-	-	-	7.4 J	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	-	Trip Blank
	08/16/00		-	-	-	-	<7.0	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	-	Trip Blank
	11/01/00		-	-	-	-	<6.6	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	-	Trip Blank
	02/15/01		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	05/16/01		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	07/30/01		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	10/29/01		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	01/30/02		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	03/25/02		-	-	-	-	<60	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	04/30/02		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	-	Trip Blank
	08/27/02		-	-	-	-	<60	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	-	Trip Blank
	12/26/02		-	-	-	-	<60	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	-	Trip Blank
	02/24/03		-	-	-	-	10 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<150	Trip Blank
	04/21/03		-	-	-	-	30 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<150	Trip Blank
	07/22/03		-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<150	Trip Blank
	10/31/03		-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<150	Trip Blank

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 1289
4861 E. Firestone Blvd., South gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured Product Thickness (feet)	GW Elev. (ft-MSL)	GRO ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Ethanol ($\mu\text{g/L}$)	Sample ID	Comments
Trip Blank	03/16/04	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB	
	06/22/04	-	-	-	-	75.00	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<50	<5.0	<5.0	<5.0	<150	TB-1289-20040622	
	09/13/04	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20040913	
	12/09/04	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20041209	
	02/07/05	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20050207	
	05/02/05	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20050502	
	08/01/05	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20050801	
	12/01/05	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20051201	
	01/30/06	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-1289-20060130	

Notes:

GRO = Gasoline range organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

MTBE = Methyl tert-butyl ether

TBA = Tert-butyl alcohol

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

SPH = Separate phase hydrocarbons

TOC = Top of casing (surveyed)

Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 1

ft-MSL = feet above mean sea level

$\mu\text{g/L}$ = Micrograms per liter

< = Analyte was not detected above the specified method reporting limit

- = Not measured or analyzed

J = Estimated value (less than the method reporting limit and greater than or equal to the method detection limit)

Refer to the reports in which data was first presented for more information on historical data.

GRO analyzed by EPA Method 8015 Modified. The carbon chain range used for analysis since 2000 Quarter 1 is C4-C12.

BTEX and oxygenates analyzed by EPA Method 8260B since 2000 Quarter 1.

A = Alternate analytical method results (used for method comparison studies)

DUP = Duplicate sample

NS = Well not sampled

INA = Well inaccessible; not sampled